INTERNATIONAL SEARCH REPORT

International application No.

PCT/US05/28829

A. CLASSIFICATION OF SUBJECT MATTER IPC(8): C12N 5/00(2006.01),5/06(2006.01)				
USPC: 435/325,377,405 According to International Patent Classification (IPC) or to both national classification and IPC				
B. FIELDS SEARCHED				
Minimum documentation searched (classification system followed by classification symbols) U.S.: 435/325,377,405				
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched				
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) Please See Continuation Sheet				
C. DOCI	JMENTS CONSIDERED TO BE RELEVANT			
Category *	Citation of document, with indication, where ap			Relevant to claim No.
X	US 2003/0138948 (Fisk et al) 24 July 2003 (24.07.20	003) Abstra	ct and page 7, Table 1	1-73
Y				1-73
Y	Hori, Y et al. Growth inhibitors promoste differentiation of insulin-producing tissue from embryonic stem cells. PNAS. December 10, 2002. vol.99. no. 25. pages 16105-16110 (whole document)			1-73
Y	Kumar, M. et at. Signlas from lateral plate mesoderm instruct endoderm toward a pancreatic fate. Developmental Biology. 2003. 259:109-122			1-73
Α	D'Amour et al. Efficient differentitation of human embryonic stem cells to definitive endoderm. Nature Biotechnology. October 28, 2005. (online) vol. 23, no. 12. p.1534-1541			1-73
Α	James et al. TGFb/activn/nodal signaling is necessary for the maintenance of pluripotency in human embryonic stem cells. Development. Dec. 2005. 132:1273-1282			
Further documents are listed in the continuation of Box C. See patent family annex.				
Special categories of cited documents:			later document published after the interr date and not in conflict with the applica-	tion but cited to understand the
"A" document	defining the general state of the art which is not considered to be of		principle or theory underlying the invent	ion
particular relevance "E" earlier application or patent published on or after the international filing date		"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone		
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)		"Y"	considered to involve an inventive step when the document is combined with one or more other such documents, such combination being	
"O" document	referring to an oral disclosure, use, exhibition or other means		obvious to a person skilled in the art	
"P" document published prior to the international filing date but later than the priority date claimed		"&" document member of the same patent family		
Date of the actual completion of the international search		Date of mailing of the international search report		
20 April 2007 (20.04.2007)		Authoriz	ed officer	
Name and mailing address of the ISA/US Mail Stop PCT, Atm: ISA/US		Townson Vim (1/1/00 Win Mason		
Commissioner for Patents P.O. Box 1450		Taeyoon Kim Telephone No. 503-272-0700		
Alexandria, Virginia 22313-1450		Telephor	ne No. 501/-272-0700	170
Facsimile No. (571) 273-3201				

Form PCT/ISA/210 (second sheet) (April 2005)